

INTRODUCTION:

MULTIGUARD HYDROFAB-SB AL is a cold applied self-adhesive, flexible, waterproofing and protection membrane made from rubber modified bitumen compound with Aluminum surfaced solar reflective film on its upper side as protection layer. It has a detachable silicone film on the underside. **HYDROFAB-SB AL** is a non-reinforced waterproofing self-adhesive membrane where the upper facing serves dual purpose of acting both as reinforcement and protection. It is a solar reflective film with an Aluminum surface. The membrane proffers outstanding solar reflectance, puncture resistance, breaking strength and temperature resistance.

Unique Features:

- Cold applied, no heating required
- Aluminum surfacing provides outstanding solar reflectance
- Permanent flexibility and safeguard against water
- Effective barrier for both water and vapor
- Absorbs substrate movement
- Safe for ground water, no contamination

USES:

To waterproof basement, tunnel, flyover and damp-proof concrete, cement rendering, brickwork and blockwork. To protect concrete against the effects of freeze-thaw cycles, de-icing salts, carbon dioxide and other acid gases, dilute acids and alkalis.

This includes waterproofing of concrete slabs, balconies, water tanks, sealing internal basement and cellar walls against dampness, protection of concrete structures in marine environments, external tanking of substructure concrete such as basement walls in new buildings.



TECHNICAL DATA:

PROPERTIES	RESULTS	UNITS
Coating asphalt	Rubber modified self-adhesive asphalt	---
Softening point	105±5	°C
Penetration @25°C	50±5	Dmm
Low temperature cold flexibility	≤-15	°C
Heat resistance @ 70°C	No flow	°C
Tensile strength of Film	25/22	N/mm ²
Elongation	150/150	%
Tear resistance	15/12	N/mm
Puncture resistance	>180	N
Adhesion strength	2.0-2.5	N/mm
Hydrostatic pressure @ 5bar (50m)	No Leakage	bar
Water absorption %wt. @ 23°C	0.15	%
Impermeability to water	Pass	--

Typical test values represent average values from samples tested.

Tolerance: - Roll Dimension ±15 %, Tensile Strength±30 %, Elongation±30 %, Tear Strength±25 %

RECOMMENDED APPLICATION:

- Waterproofing in general, where the use of fire/flame is not possible.
- Waterproofing structural concrete and masonry walls.
- Waterproofing and protection of underground structures.
- Waterproofing membrane for inverted roofing systems.
- Waterproofing of balconies, bathrooms, swimming pools and tunnels.

APPLICATION DATA:

PREPARATION

- The substrate must be smooth, clean, and should not have oil/grease and defects or irregularities. This might bruise the membrane. Use of a wire brush or broom is suggested for the removal of dirt, dust or any other contaminants.

PRIMING



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Multiguard HydroFab SB AL/2024/R0-29072024

- Apply **MULTIPRIME SB** on the substrate and let it dry. Prime only the area which will be covered by the membrane in a working day. Re-priming is required if the primed areas are not covered with the membrane within 24 hours. Depending on the porosity of the surface the primer should be applied by brush or roller at a rate of 0.3~0.4 Ltr/sq.m. Surfaces such as metal or plastic don't require any primer.

LAYING OF MEMBRANE:

- Cement mortar or bitumen mastic must be used to fill up all the angles. Use strips of **HYDROFAB SB AL** membrane to prepare angles, edges, corners, roof penetrations, horizontal joints for reinforcement and better adhesion of the membrane. Slowly and evenly peel back the release film over a width of about 30cm at the start of the membrane. Gently lay the adhesive side on the substrate and press it into contact. To keep the bubbles from forming peel back the release film further simultaneously pressing the membrane firmly against the substrate with a cloth or soft brush starting at the Centre and going towards the edges. Adjacent rolls are aligned and overlapped minimum 65 mm at side and 100mm at ends. Press the overlapped firmly using a rubber roller after removing the silicone release film. The membrane should not be applied below - 5°C. Protect suitably and make sure not to expose it to the external weather.

COVERAGE

- **HYDROFAB SB AL:** Flat Areas: 1.1m²/m² (Approx.) per layer with min. 65mm Overlaps and min. 100mm end laps. (Average wastages: 2-3%)
- **MULTIPRIME SB:** Smooth Surface: 0.3-0.4 Ltr/m² (Approx.) will give a dry film thickness of 100 microns.

CLEANING

All tools should be cleaned with water immediately after use.

STORAGE:

- The rolls must be stored vertically in a covered area, should not be exposed to direct sunlight, UV and other sources of heat.
- The shelf life of the product is up to 12 months from the date of production.
- Excessive exposure to sunlight and UV may lead to slumping of the product and reduce its shelf life.

PACKAGING / SUPPLY

- Nominal roll length: 10m, 15m, 20m
- Nominal roll width: 1m
- Nominal thickness: 1.5mm, 1.8mm, 2.0mm

SAFETY DATA:

- **Due to the presence of sticky compounds HYDROFAB SB AL membranes can stick to human skin. In cases like these, it can be removed by using soft cloth dipped in a suitable cleaner.**
- **If the burn is deeper, take medical help immediately.**
- **Wear suitable protective clothing, gloves and eye/face protection.**

Please consult our technical department for further information.

WARRANTY

Multichem warrants Multiguard HYDROFAB SB AL to be free from manufacturing defects as defined in this warranty. Manufacturing defects are considered to be those defects that occur due to the quality of the ingredients or from the manufacturing process itself. This warranty does not include labor costs and other costs or expenses associated with the removal or installation of Multiguard HYDROFAB SB AL.

Because the Multichem does not perform the actual installation, it cannot be held responsible for the results of the application. Multichem specifically disclaims problems that occur due to weather conditions, structural movement, structural design flaws and application techniques.

This warranty is in lieu of all other warranties expressed or implied including the warranty of merchantability and fitness of purpose and of all other obligations or liabilities on Multichem part. Multichem neither assumes nor authorizes any person to assume for Multichem any liability in connection with the sale and installation of Multiguard HYDROFAB SB AL.

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